

Declassified in Part - Sanitized Copy Approved for Release 2012/06/11 : CIA-RDP78T05439A000500260032-7 TOP SECRET REPORT SENSITIVE OPERATIONS COMPLEXES, USSR TOP SECRET

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	THE CONTENTS	
,	TABLE OF CONTENTS	
	Page	
	Introduction	
•	A Company of the Company Complexes Company of the C	
•		
	Complex	
•		
•*		
•		
	Other Support Facilities	
•		
	Other Support Facilities	
	Operations Area	
	Housing and Administration Facilities	
	Other Support Facilities 21 Nyandoma Sensitive Operations Complex 21	
	Nyandoma Sensitive Operations Complex 21 Operations Area 21	
	Rail Facility	
	Housing and Administration Facilities	
4	Cher Support Facilities	
	22	
	and the Administration Macillities and the second s	
	Housing and Administration Pacificies	
	(Aner Support Patrities	
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TABLE OF CONTENTS (Continued)

TABLE OF CONTENTS (Continued)

Table of the present of the presen

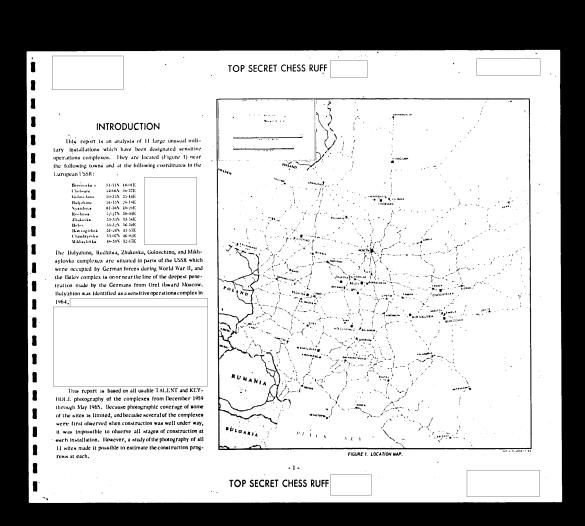
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•								
ı			•			•		19
•		5.5						
•	2 2		,	LIST OF ILLU	ISTRATIONS			
			1.5	.24				
•						Page	1	
•			Figure 1.	Location Map		. 1		
• ,.			Pigure 2.	Alpha Bunker Shown Under Constructi (hereneethers)	ion and Earth Covered			•
•			Figure 3.	(perspectives)	on and burth Comment	, d ;		
•			i.ds	(Bersbectives)	on and Earth Covered			
•		•	Figure 4.	Gamma Bunker Shown Under Construc	ction and Larth Covered			
•		5		(perspectives)		. 5		
2			Figure 5.	Delta Bunker Shown Under Construction	on and Larth Covered			
		7.5	Cimer 6	(perspectives)		. 6		
ŧ				Epsilon Bunker Shown Under Construction				*
-			Figure 7.	(perspectives)	mand back Course	7		
					n and Earth Covered			•
•			Figure 8.	Lta and Theta Bünkers Shown Under C	Construction (perspectives)	.		
t			Figure 9.	Traveling Bridge Crane (perspective)		11		
•			Figure 10.	Berëzovka Sensitive Operations Comp	lex (photo)	. 13		
			. Figure 11.	Chebsara Sensitive Operations Comple	ex (photo)	. 15		
•			Figure 12.	Golovchino Sensitive Operations Comp	Olex (photo)	. 17		ı
t			Figure 13.	Bulyzhino Sensitive Operations Compli	ex (photo)	. 19		į.
•	-		Figure 14.	Housing and Support Pacifities, Bulyzh	hino Sensitive Operations Complex			ı
1			Figure 15. 1	(une drawing)	lex (photo)	20		
•			Figure 16. 1	techitsa Sensitive Operations Complet	x (photo)	23		
1			Figure 17.	Zhukovka Sensitive Operations Comple	x (photo)	24 *** 26	٠.	
-			Figure 18, 1	Selev Sensitive Operations Complex (p	photo),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	27	**	
1			Figure 19. 1	30risoglebak Sensitive Operations Con	nplex (photo)	29		
-			. Pigure 20. I	Maintenance Area, Bortsoglebsk Senst	tive Operations Complex			
ı			Figure 21. ((line drawing)		30		,
•.			Figure 22. 1	Jaadayevka Sensitive Operations Com	nplex (photo)	32		
•			*********	Hikilayiotka Schmitte Operations Con-	tplex (pnoto)	33		
•				•		¥.,		
				,		***	* .	
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CHARACTERISTICS OF THE SENSITIVE OPERATIONS COMPLEXES The complexes are characterized by isolated locations, the presence of massive concrete bankers, and standardized site plans which include stringent security precautions, military boosing facilities capable of accommodating a large number of troops, and rail facilities which are field into	bunkers has been found only at Horjsoglebsk, Chandayovka, and Mikhaylovka. If a bunker is constructed in the existing excavation at fickey, it will probably be aneta or theta bunker. I see authors for the first separation bunkers were first observed between December 1959 and August 1962; occavations for the second-generation bunkers were first observed between December 1961 and the summer of 1962; and excavations for the third-generation bunkers were first observed between December 1961 and the summer of 1962; and excavations for the third-generation bunkers were first observed between July and October 1963.
major Soviet rail networks. The complexes are not defended by SAM sites; however, Berezovka, Chaadayevka, Rechitsa,	First-Generation Bunkers
and Zhukoska are on the periphery of the SAM defenses of Saratov and Lugela, Penza, Gomel, and Bryansk, respectively. By contrast, at least two SAM attes have been observed in the secinity. In the USML No communications facilities have been observed at or near any of the complexes, and no major military or civilian airfields are within a 15 nautical mile (nm) radius of any of the complexes.	The alpha bunker is a multilevel Irregularly shaped structure with a rectangular main bay (Figure 2). A rectangular corridor 110 feet long provides access to the bunker. The main bay is 215
BUNKERS	each bay
The bunkers have been constructed on terrain affording them maximum protection and concealment. With the exception of those at liverzowks, the bunkers are situated in dense forests which provide excellent concealment. The liverzowks complex is on a treeless flood plain of the Volga River, and the bunkers have been built in cuts in the wall of the Berezowy Ravine. The designs' employed in the construction of the bunkers at the sensitive operations complexes comprise three groups or generations. The first group consists of the alpha and beta designs, the earliest and most elaborate. This group has been observed only at liverzowka, Chebarra, and Colovchino. The second group or generation consists of the gamma, delta, epailon, and zeta designs, which are less claborate than the first-generation designs. This generation of bunkers has been-found only at Bullythino, Nyadoms, Rechtags, and Zhu-been-found only at Bullythino, Nyadoms, Rechtags, and Zhu-	La cytindrical object which is somewhat higher than the main bay of the bunker is a stacked to the rear of the alpha bunker, but the function of the object is unknown. It has a outside the function of the object is unknown. It has a outside the control of the object of the object at flunker I is flush with the oarth covering of the bunker and is barely visible. The object could possibly house ventilating equipment, or It could be an emergency entrance or exit should the main entrance be damaged or destroyed. Probable handling or equipment bays are located on each side of the entrance cortion? A superstructure above the entrance probably contains hoisting apparatus. The road serving the bunker is at right angles to the entrance, and the turn is too sharp for a vehicle to negotiate. Materiel could be transported through the cortists, and into the bunker on dollies or by means of overhead traveling cranes. In at least one instance
been-found only at Bulyzhino, Nyandoma, Rechitsa, and Zhu- kovka. The third group or generation consists of the eta and theta designs, the simplest of the eight. This generation of	means of overhead traveling cranes. In at least one instance (Bunker 1 at Chebsara), the service road torstinates inside the entrance. All alpha bunkers are heated by steam,

Since no beta bunkers have been observed in a midstage of construction, the precise configuration of the structures is unknown. The main bay or leg of the [1] and is divided longitudinally into four bays, each of which is approximately 25 feet wide. The exterior walls of the bunker arg about five feet thick.

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econd-Generation Bunkers
The gamma hunker consists of a main bay, an ell, and an
tension (Figure 4). The main bay out-
le dimensions), and it is divided into four longitudinal bays.
ch of which Although the
ckness of the exterior and interior walls cannot be pre-
sely determined, they are probably five thick.
e bunker has two entrances: the first is the ell which is
by 40 feet (outside dimensions), and the second is in the
tension which is situated at one end of
bunker. The raised section above the entrance ell may
use overhead handling equipment.
The delta bunker consists of a main bay measuring 215
120 feet and an entrance ell approximately 85 feet square
igure 5). A second entrance is in a exten-
on at one end of the main bay. Whether the main bay is di-
ded into longitudinal bays is not known. A projection
is opposite the entrance ell and extends
om ground level above the roof of the bunker. The top of
is projection is joined to a square raised section
sich may house overhead handling equipment or possibly
elevator. Overhead handling equipment may also be
used in rectangular raised sections over both entrances.
The epsilon banker, the least elaborate of the second-

(Figure 6). An entrance corridor has a drive-in capability.	1
The zeta bunker is 1. shaped, and a wing which is parallel to the base of the L (Figure 7). The	1
orridor which is ght angles to the wing. The leg of the L or main bay is	ı

at rig and a portion of it is divided into four longitudinal bays, eached which

A center alse

is at right angles to the four bays and in line with the entrance. They remainder of the

bay is divided into at least two compartments.

The beta bunker is multilevel, roughly I. shaped, and has two entrances, both of which are probably identical to the corridors observed at the alpha bunkers (Figure 3).

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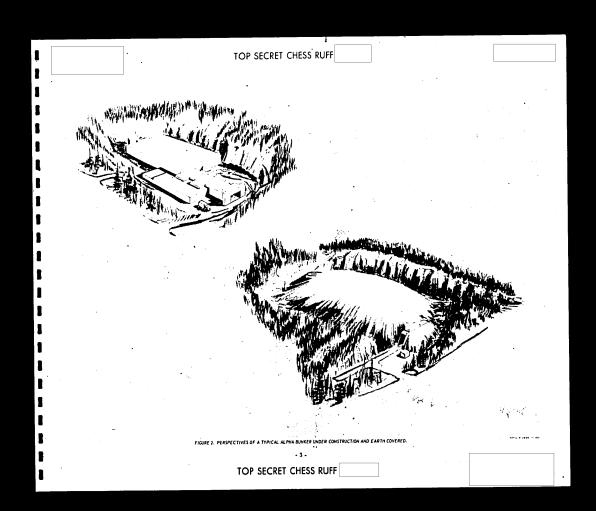
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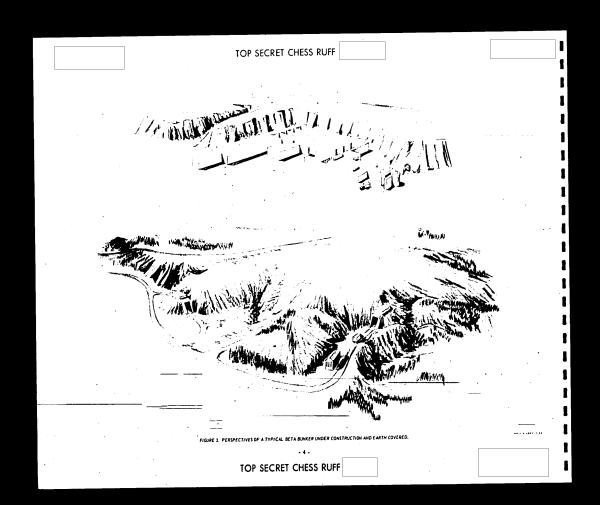
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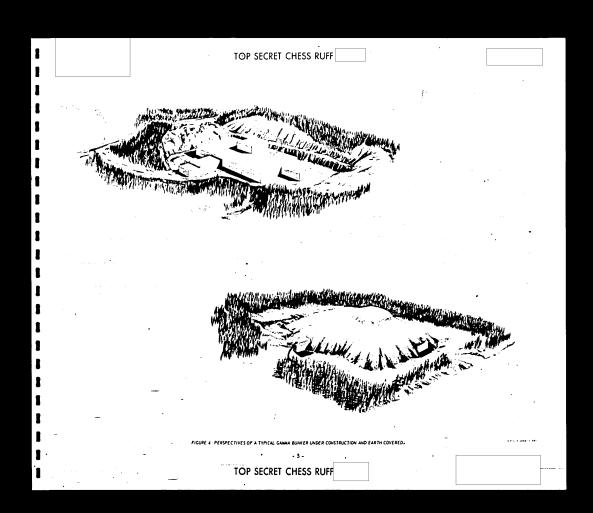
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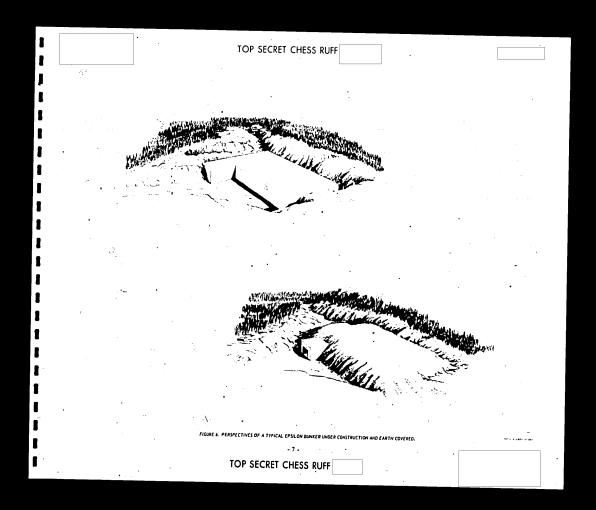


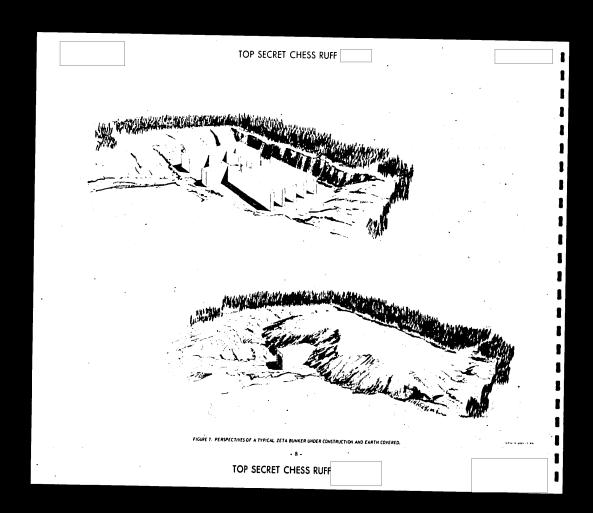
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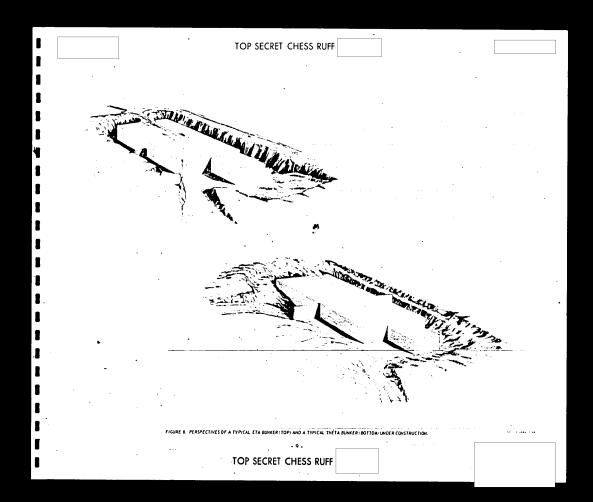


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Third-Generation Bunkers

Of the eight designs used in the construction of bunkers at the sensitive operations complexes, the eta and theta de-

stens are the simplest (Figure 8). The eta bunker and is divided into three longitudinal bays. The outside bays are approximately 25 feet wide, and the center bay is 35 to 40 feet wide. An extension at one end of the bunker Although entrances were not discernible the eta bunker may have a drive-in capability. The theta bunker and is divided into three longitudinal bays. Each outside bay is about 30 feet wide, and the center bay is 35 feet wide. An extension at one end of the bunker measures 55 by 40 feet. The thickness of the exterior and interior walls cannot be determined. Soentrances were ob-

Construction Chronology

At most of the complexes several bunkers have been and are under construction concurrently. Bunkers of an earlier generation are under construction at one complex while work on those of a later generation is started at another. For example, at Chebsara two bunkers, one an alpha and the other probably a beta, are under construction; at Rechitsa one delta bunker is under construction; and at Mikhaylovka one eta and two theta bunkers are under construction. In 1965 fifteen bunkers of at least six different designs are in various stages of construction at seven complexes. All the bankers at Bere-zovka, Golovchino, and Bulyzhino have been completed and earth covered. No bunkers are under construction at Belev

pace of construction on the bunkers has varied. At Berezovka five bunkers were completed and earth covered in four years. At Bulyzhino five bunkers were built and earth covered between August 1962 and March 1965. On the other hand, at Chaadayevka construction on three bunkers began at some time after April 1962 but was abandoned by July 1962. By September 1963 a new excavation for a fourth bunker was visible several miles from the site of the abandon construction activity. The bunker under construction in this excavation is probably a theta bunker.

Although individual facilities at each complex may vary somewhat in both layout and structural detail, it is evident

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that an effort has been made to standardize site plans and structures. Luch site plan usually consists of the following

Operations Area. The operations area is heavily secured and usually contains from three to six bunkers and an operations support facility consisting of two to four buildings. At complexes having first-generation bunkers this fa-cility contains three or four buildings; at complexes having second- and third-generation bunkers, two buildings. On of these structures is always a large, high-bay, drive-through building. With the exception of the Chaadayevka complex, access to the operations area is controlled by a gatebouse a the entrance. Unless noted otherwise, this gatehouse has been arbitrarily designated as the reference point (RP) from which all distances and azimuths within the complex have been calculated.

2. Roads. All bunkers in the operations area are served by roads; at five of the complexes these are loop roads. Most of the complexes have central service roads extending from the operations areas to all other facilities within (installations.

3. Rail Facility. The rail facility consists of a holding yard with five to seven parallel sidings, a traveling bridge crane, a steamplant, and POL tanks. The crane travels on two ralls supported by vertical members which are 20 feet (Figure 9). One rail siding and a portion of a loop road are situated between the ver tical supports. The length of the rails is from 275 to 315 feet; the crane spans _____ At most of the complexes rolling stock observed in the rail facility has included rail

 Military Housing and Administration Facilities.
 Housing and administration facilities for military personnel consist of multistory barracks, duplex units, messhalls, and administration buildings. The barracks are usually three stories high and measure 220 by 50 feet. The duplex units (probably for officers) and provide housing or two or three families. In estimating the number of troops the barracks could accommodate, 100 square feet has been allowed per man. The harracks at each complex could accommodate an estimated average total of 3,300 troops. At seven of the complexes the messhall is an II-shaped building probably having separate messing facilities for enlisted personnel and officers and

all. Kitchen facilities probably occupy the crossbar of the H. An irregularly shaped infirmary or assembly and recreation building has been observed at three of the complexes.

This is a multistory structure and measures 215 by 50 feet.

5. Construction Workers Housing Lacilities. Housing ı

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for construction workers consists of five to nine dormitorytype buildings and a meashall.

6. Construction Support Facility. This facility is rail

served and separately secured. It is adjacent to the rail facility and contains a concrete batch plant, warehouses, piles of aggregate, a fabrication yard, and equipment.

7. Motor Pool. The motor pool is adjacent to or near the rail facility and contains a vehicle garage and associated buildings. It is secured by a wire fence, and access to it is controlled by a gatehouse. At complexes having first-generation bunkers the vehicle garage is 390 by 120 feet. At complexes having second- and third-generation bunkers the garage is 255 feet long and 65 to 70 feet wide.

BEREZOVKA SENSITIVE OPERATIONS COMPLEX

The Berezovka Sensitive Operations Complex is 17.5 nm south-southwest of Engels near the village of Berezovka (Figure 10). The complex is tied into the fingels-Uralsk and Engels-Astrakhan rail lines east of the Volga River. Excaat the complex since that time is presented in NPIC/R-95

vations for three bunkers and construction op-some of the support facilities were first observed in December 1959, and at that time it was evident that work on the complex had been started at least six months earlier. Construction progress OPERATIONS AREA The Operations Area of the Berezovka complex is situated at the eastern end of the Berezovyy Ravine, approxi mately 4 nm east of the Volga River, and it is approximately mately 4 nm east in the volgativer, and a approximately 4 nm east in the volgativer, and it is relatively level and covered by scrub growth. The terrain bordering the ravine is flat. A Soviet Army topographic map indicates that the walls of the ravine are about 20 meters (66 feet) high. Bridges have been built across streams at the bottom of the ravine. The area is surrounded by at least four rows

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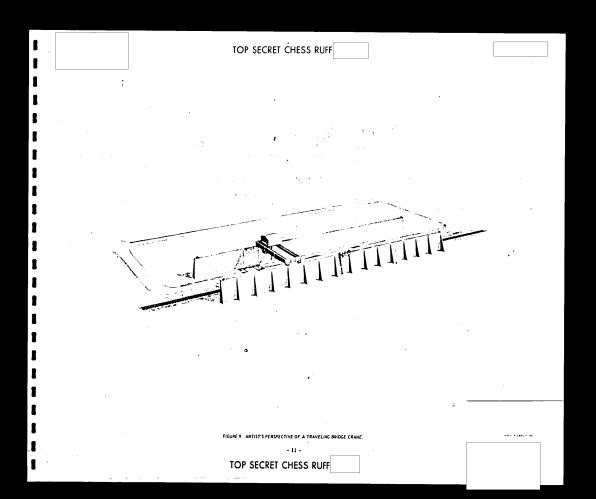
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(RP)				
	The area co	otains thre	e completed.	alpha baakers (Baak -
ers	2, 3, and 5)	and two cor	upleted beta	bunkers (Bunkers 1
and	to, all of wh	ich have bee	nconstructe	d in deep cuts in the
walls	of the ra	one (Lable	D. Each bu	nker is protected by
an c	arth cover	which proj	ects slightly	above the top of the
rayı	ne. If the	main bay o	feach bunk	erif
the f	loofs of the	bunkers ar	e 10 feet abo	we the bottom of the
ravi	ie, and if t	he walls of	the ravine	are actually
	the banke	rs are cove	red with an	estimated
carti	. The bur	kers are he	ated by stea	m, and aboveground
stea	nlines are	clearly vis	thle. Each I	bunker is separately
неси	red by wir	fencing a	nd served b	y a well-engineered
conc	rete_road	laving wide	turns and	gentle grades. One
Sec. 11	on of this	road is pro	lected from	washouts by earthen

Lable L. Deartipleon of Bankers in the Operations Area.

Bunker No	Type	Bretance from RP (ft)	transeth from ItP	Distance from Other Bunkers (ft)	Natus
1	Bern	1,744		1,100 for No. 3	Complete & earth
2	kipt.	7,500		6,200 from No. 1	Complete & earth
	t tpt.∎	5,900		2,080 from No. 2	Complete & earth
٠	Beta	4,400		. 2,000 from No. 4	Complete & earth
5	Alpha	3,700		2,000 Iron No.4	Complete & earth

The Operations Support Facility in the sessible-astern part of the Operations Area and 2,000 feet southeast of the BP consists of four buildings. The most prominent of the four is the separately secured drive-through building which is served by a loop road. The building has a center Inogustation labs by 45 feet wide. The second building is situated east of the drive-through building on a branch of the loop road and building is situated east of the drive-through building, One is an an and has two addowals entrances. The other is and has two addowals entrances. The other is a concrete apron and an extension are distinct for the building, One is a concrete apron and an extension.

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through building, and in March 1964 one FAGOL/FRESCO aircraft was parked between the smallest building and the south wall of the ravine.

Between July 1962 and March 1964 a concrete belicopter pass a constructed on level ground 1,100 text southeast of the Operations support Facility and south of the ravine. The pad is 360 by 190 feet and 1s connected to the Operations support Facility by a road, In March 1964 a FACOLYFIRLSCO affectalt was observed near the pad. At that time the ground was smow covered, and snow had been bloom in several directions around the aftercast, probably an indication that the pad had been recently used. On subsequent photography FACOLYFIRLSCO affectant were observed on or alongside the pad. It is possible that the affectant were delivered to the complex by helicopter.

RAIL FACILITY

The Rail Facility is 14.5 nm north of the complex and south-southwest of Engels near the village of Anisovka, a re-examination of the December 1959 photography indicated that this facility existed at that time; however, its associa-tion with the Berezowka installation was not known at the time. The facility is enclosed by a solid fence or wall and consists of a holding yard with six parallel sidings, a bridge crane, three barracks, and a probable administration building. A rail siding is situated between the supporting walls of the bridge crane. Another siding serves a row of ware-houses south of the bridge crane. Rolling stock was observed in the facility in June 1964 when a string of five short rail cars was parked outside the bridge crane, and materiel complex. In October 1964 a longer string of rail cars was noted in the same location, and a large number of short and long rail cars were also observed in the facility. The barracks and probable administration buildings are in the northwest portion of the Rail Facility. Each barracks is 170 by 80 feet, and the probable administration building, 95 by 80 feet. A separately fenced area measuring 600 by 520 feet has been added to the southwest side of the facility since June 1964. No activity has been noted in this area.

HOUSING AND ADMINISTRATION FACILITIES

Military housing and administration facilities are at the

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western end of the complex and include barracks and officers quarters. Seventeen two-story barracks were built before April 1962, and each measures 115 by 50 feet. Six threestory barracks were built between July 1962 and March 1964, and each is 220 by 45 feet. Probable uffers quarters consist of six two-story units, each of which The military housing facilities could house an estimated total 1

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of 3,600 troops. Administration facilities include a large administration building and several small U-shaped administration buildings. Bose facilities do not include an H-shaped messball.

Additional military bousing northwest of the RP and

morth of the central service road consists of three two-atory barracks and three barracks and romstruction. When completed, these facilities could house an estimated total of 800 triopis. Housing for construction workers is immediately west of these barracks and consists of aix single-story dormitory-type buildings.

OTHER SUPPORT FACILITIES

In the eastern portion of the complex these facilities include a steamplant northwest of the construction sorvers housing. Aboreground steamlines serve the military and construction workers bousing, all of the bunkers, and the Operations Support Tacility. In the seakern portion of the complex support Tacilities consists of two separately secured undentified areas, a steamplant, and the motor paid. The first undentified areas, a steamplant, and the motor paid facilities is enclosed by one wire fence, and guard towers are situated at the correst. When first observed in March 1984, this areas contained 15. NoOTH RESCO tractal and a COACH/GRALL/CABL. In June 1961 in RESCO 178 INCO observed there, the following logust seven FAGOL/FRESCO were observed in the area, and intender of the same year nine FAGOL/FRESCO were observed in the area, and intender of the same year nine FAGOL/FRESCO were observed.

The second unidentified area north of the first is aurrounded by a solid fence or wall and contains two buildings. One is a drive-through building which and a drive-through building is as a center longitudinal bay 45 feet wide. The building is served by a concreto loop road 15 feet wide and having wide

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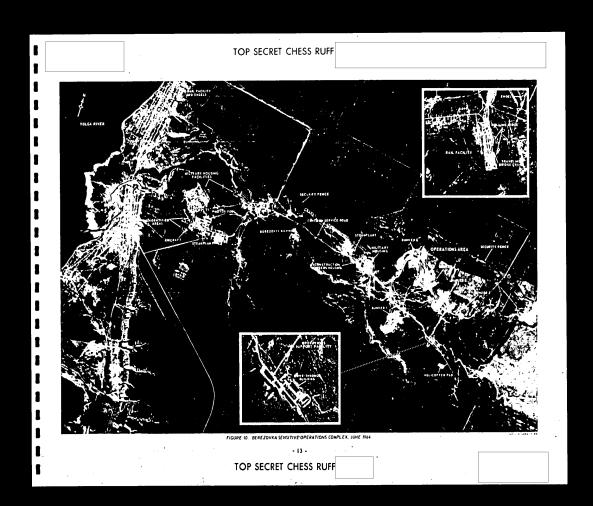
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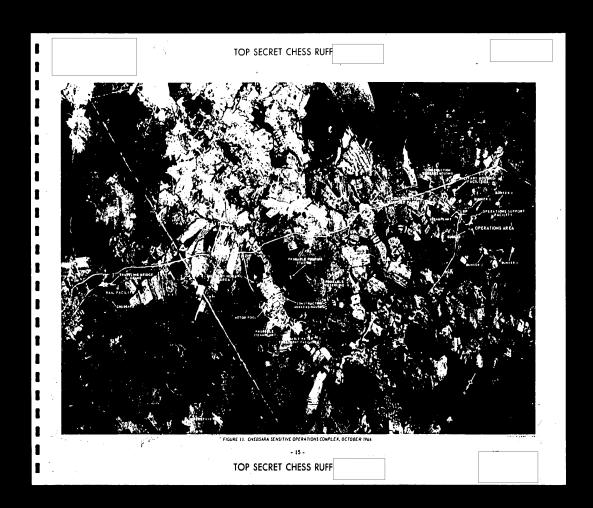


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	turns. At the entrance to the building the road is 25 feet wide. The other building is situated at right angles to the tirst. It is a second of the properties complex having such an area. The motor pool southeast of the military bousing and administration facilities contains a vehicle repair shop and? or garage which is 360 by 120 teet. CHEBSARA SENSITIVE OPERATIONS COMPLEX The Chebsara Sensitive Operations Complex is 7 nm southworst of the trown of Chebsara and 215 nm east of Cherepovets of gare 11). The complex is served by an improved road and by a rail spur from the Cherepovets-Volgda double-track rail inc. The site was photographed for the first rail inc. The site was photographed for the first.	crs. At Banker I the road terrumates inside All turns in the road are wide, and all gradience. The completed bankers are separate a single write bene. They are heated by sterilization of the state of the single write bene. They are heated by sterilization of the state of the s	continue are fairly cells accurately man, and always and man, and always and and and and and and and an	ilding yard. A rail widing is situal orting walls of the bridge crane, ast of the crane parallels this sid	of Chebsara and jost lines to the control of the central service in tree central service in tree central service in tree period of the central service in the teather state of the tree possible service in the balding and the facility shad been server standing in the ed between the sup-A large warehouse ing. Another stating
	time in Sugard 1900 when it was in an early stage of con- struction, but the quality of that photography was poor. The- first good photography of the complex was that of April and August 1962 when the complex was identified as a probable nuclear weapons steekple site. Construction progress on the complex is presented in NPIC/R-149/63.37 in February 1901 one busiter was complete and earth covered, one bifuter was being earth covered, and three busiters were under con- struction.	Probably In April 1964 three FAGOI aircraft vousside the Operations Area south of the there was evidence that two additional airc been parked there prior to that time. The craft were again observed in the same le 1965. The Operations Support Facility is on	were observed gatehouse, and raft may have re FAGOT air-ocation in May	uth of the warehouse serves a coal by transported by truck from the obable steamplant in the north-cer implex and to the military housing spectively. OUSING AND ADMINISTS ACILITIES	Raff Facility to a stral portion of the facilities near the t-5 nm and 7,5 nm,
	OPERATIONS AREA The Operations Area of the Chebsara Sensitive Opera- tions Complex to situated in a heavily wooded horses/hee- shaped pecket v.5 mm southwest of Chebsara. The area measures approximately 8,000 by 0,000 feet and is accured to the operation of the feeter. The first and second traws of fences the third and fronth, 25 feet apart; and the tourth and fitth. Access to the area in con- troilled by a gateliouse (RP), which is a high divide configurations are as a con- troilled by a gateliouse (RP), which is for a guard detachment. The Operations Area contains two completed alpha bunkers (Hunker S) under construc- tion, and mo other bunker under construction (Bunker 4), which is probably a beta (Table 2). A loop road with an all-weather surface, probably concrete, serves the bank-	245 degrees and 1,800 feet weat of the RP, of the loop road, it contains three buildings, is heated by an overhead steamline. The is a separately secured drive-in building Lecept for the absence of a driv publity, this structure is identical to the buildings observed in the operations support other sensitive operations complexes. The sists of a center longitudinal high bay 55 bays, one on each side of the center bay space, and each is 20 feet wide. The semeasuring is east of the approximately 225 feet south of the drive the approximately 225 feet south of the drive third building. In April is aircraft was parked 105 feet north of this b imprediately behind this siterard in may have result of an engine runup. In May 1965, craft was observed in the same area.	ceach of which regest building rethrough cap drive-through fracetires as a building con- feet wide; two from the cond building con- feet wide; two from the cond from the	A military housing area is about 5 cerations. Area and east of the Chebs, mains harracks and several small or either harracks are each and are phin ince harracks are each and are phin ince harracks are each and the harracks and directive the high; and five harracks and directive the provided by five small unit cera; the provided by the small cera could house an estimated total of a hear facilities in this portion of the couped meanhail and a U-shaped adm Additional military housing facilities mediately outside the theractions are accured and consist of three two-seauring 130 by 60 feet, and one two-studing [30 by 60 feet, and one two-tiding]	rra River. The area nits, I we barracks obtably three storges to hand are probably for which could a combine the Mitray Housing, 90000 4,000 troopoff, mplex include an Hinstration building, or are east of the RP, each these facilities tory barracks, each story administration bree barracks, each
		TOP SECRET CHESS RUFF		unc on estimated total of 460 Troops	N. Decause on their



proximity to the Operations Area, it is logical to conclude that these quarters are for security or support troops assigned to that area.

Construction workers are housed in an area east of the RP and just outside the Operations Area. The area is secured partially by a wall and partially by a fence. It contains six one-story durmitory-type buildings, a T-shaped messibilit, and several small buildings. Several warehouse-type buildings are situated in a storage area east of the construction workers housing.

OTHER SUPPORT FACILITIES

In the western portion of the complex support facilities consist of the Construction Support Facility and acoid-free decoupling southeast of the RV. The Construction Support Facility east of the RV contains a concrete batch plant, warehouses, piles of aggregate, and a traveling gantry crane situated in a fabrication yard. The crane is mounted on a pair of tracks 610 feet long, Large quantities of material and equipment are visible throughout the facility. Secambines can be reaced from the attemption to the military and construction surkers housing facilities near the Operations Area. An absocytound steamline from the plant serves the completed business and the Operations Support Facility.

In the central portion of the complex support facilities include a probable scientificate, a probable water treatment activity near the Chebsara River, and a probable pumping attion attuited on a hilliop west of the river. A probable waterline extends from the west bank of the Chebsara River to the sctamplant and all of the housing facilities near the Operations Area. The motor pool east of the probable steamplant and north of the Military Housing Area contains a vehicle garage which is 30d by 10f feet.

GOLOVCHINO SENSITIVE OPERATIONS COMPLEX

The Golovchino Sensitive Operations Complex is 3 nm northwest of Golovchino, 32 nm weat of the town of Belgored, and 38 nm north-northwest of the center of Kharkov in the t*krainskaya SSR (Figure 12). The complex is served by a

branch of the double-track Kharkov-Bryansk rall line. When thrist observed on oblique TALLNI phonography of lebruary 1900, the complex contained a rall facility, an operations support facility, a selamplant, steandines, and a construction support facility. The next photography of the site was KLY NIOLL, phonography of april and November 1962, but the quality of that photography was poor. At that time the complex was identified as a probable nuclear weapons attokptle site. 37. The next and most recent photography of Lanuary 1965, the first good coverage of the complex. An analysis of all photography of the complex mass increased and that construction at Golorchino began at least a year-before construction on Berezowskabal started.

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OPERATIONS AREA

The Operations Area occupies approximately I square which intersect above the valley of the Vorskla River. A dense forest of deciduous trees provides excellent concealment during the spring and summer months. The area is served by a well-engineered central service road, which spans the Vorskla River on an open-trussbridge west of the military boasing facilities. With the exception of two sections, this road is new and was constructed specially for the complex. The Operations Area is secured, but the number of ence sencious file 1 cannot be determined. Security measures are probably similar to those observed at the other complexes. Access to the area is controlled by a gatebouse (RP) at the entrance.

In the Operations Area there are seven, possibly eight, completed bunkers served by a loop road (Table 3). In addition to the alpha and beta bunkers, there are three, possibly four, other earth-cowered bunkers in the area. Because the latter were never abserved while under construction or before being earth covered, it was impossible to observe their configurations or to determine their dimensions. However, it has been determined that they are different from one another and that they are also different from the bunkers of which is a served at all the complexes. Althoughthe distances between the bunkers are not as great as the distances between those at the other complexes, the terrain between them alpha degree of protection.

Table 1. Description of Bankers in the Operations Area, Galace known Scientific Operations Complex

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Hunker No	Types	Distance from RP (ft)	tzinisth from KP	Distance from Other Bunkers (ft)	Male-
1	Bet a	1,020		L. 140 from No. 2	Complete & care
J	Alpha.	1,500		2,700 from No.3	Complete & earth
3	Mpto	J.G.R.		* 1,860 from No. 4	Complete & cattle covered
٠	Alpha.	4,950		2,100 from No.5	Complete & earth covered
5		5,700		1,300 from No 6	Los piete & earth covered
ú	***	5,540		1,740 from No 7	Complete & earth
7	***	J,yex		d. 15e) from No. 8	Longlete & eattle covered
•	•••	9.80		1,380 from No. 1	A sattle translate bunker

The Operations Support Facility is approximately 1,489 feet west-northwest of and on an azimuthof 300 degrees from the RF. It contains a large high-bay drive-through building and two associated small buildings. The facility is secured by a single wire fence.

A probable helicopter pad in the wouthwest portion of the Operations Area is served by a road from the Operations Support Facility.

RAIL FACILITY

The Rail Facility is in the southern portion of the complex, 1.9 nm west-southwest of the center of Golos hino. The facility contains a holding yard withink in seven frank, a travelling bridge crane, three waretonace, and six unidentified buildings. In Jamary 1965 the facility was operational and rolling storel included 26 rail cars. Just a first order of the facility was operational and three rail cars, 46 to 50 feet long standing on two sidings just north and east of the bridge crane.

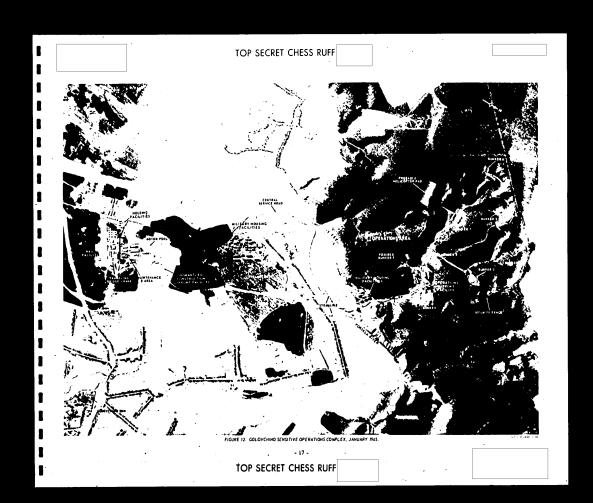
HOUSING AND ADMINISTRATION FACILITIES

Housing for military personnel 1 nm south-southeast of the Operations Area includes five three-story barracks,

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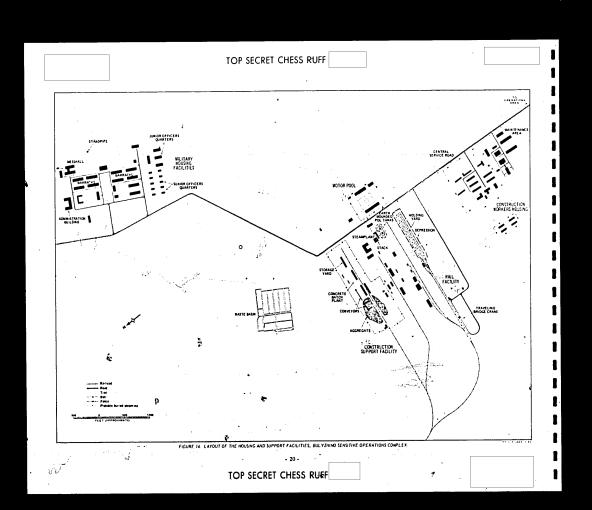
25X1 25X1 25X1 25X1 25X1 25X1

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a foundation for a sixth, and seventeen two-story, U-shaped barrackis. I ash of the rectangular barrackis better each of the U-shaped barrackis so may be barracked to the U-shaped barrackis so may be barracked to the U-shaped barrackis so may be barracked to the U-shaped barrackis could accommadate an estimated total of 3,400 troops. Neven transfory units, each pure officers, I-we administration buildings, an assembly hall, and a I-shaped meashful are associated with the military bousing facilities. Five small biousing units, probably dupley units, and one U-shaped administration building are in a world area just nouth of the barrackis. Additional bousing facilities are situated at the west end of the Batl Facility and consist of 28 small single-family dwellings. Military biousing facilities south of the BT are similar to those observed at Berezonkia not Ghebarra and consist of three multistory barrackis each 120 by 65 feet), which could accommodate an estimated total of 460 troops, an administration-type building and eight undentified building are associated with the barracks.	The Construction Support Facility formerly located morth of the Maintenance Area has been dismanifed. A coal-treel steamplant morth of the military biousing facilities is served by a single rail pair which extends through the site of the former Construction Support Lacility. Aboveground ateamlines extend from the plant to the neithin military biousing facilities, the Rail Facility, the Maintenance Area, and the Operations Area. The steamline and its supports span the Vorskla River south-southeast of the Operations Area. The motor pool north of the Maintenance Area contains a probable vehicle repair shop (390 by 120 keet) and a probable vehicle repair shop (390 by 120 keet) and a probable vehicle shed (235 by 85 feet). The repair shop has a low-pitched galile root with two rows of slender root vents. In January 1905 many uniformfield vehicles were parked in the vicinity of the two buildings, and 20 vans and other veht-cless were parked in rows north of the buildings. The bodies of eleven of the vans are 15 feet long. Similar vans have been seen at the Nyandona complex.	toad, and a central service road. The central service road terminates that inside the entrance shere it interacts the loop road at right angless. The turns in both directions have been rounded to a radius of 10 teet. The loop road service all the bankers, it has an all-seather surface, protoble concrete, and has been built up inseveral places to maintain an even gradient. Where practicable, existing roadbeds have been utilized, and other roads have been constructed in old frichieses. At Bulydrian one gamma banker (blacker 1), two delta bankers (bunkers 2 and 5), one epoting banker (bunkers 1), and tho zeta bankers (bunkers 4 and fothase been completed and earth covered (Lable 4). Whether can banker the separately accured is not known, Since the completed bankers at leverowka and Chebaara are separately secured, it to reasonable to assume that similar recently precautions where been taken at Bulydrians. [Table 1] Becompto of Backers in the operations.
OTHER SUPPORT FACILITIES	the syandona complex	Bunker Type Distance from RP trom RP trom RP trom RP trom RP (ft)
The Maintenance Area north of the Rail Facility con- ains three shop-type buildings, a warehouse-type building, in tregularly shaped possible powerplant, and a possible substation. The first shop-type building werall and has an end section which is approximately one story higher than the rest of the build- ing. At least five tall roof vents are situated along the ridge of the main section. The second shop-type building which is weverful has a high end section meas-	BULYZHINO SENSITIVE OPERATIONS COMPLEX The Bulyzhino Sensitive Operations Complex as 5.5 nm southwest of Bulyzhino and 4 nm cast of the Latrybakaya SSR border (Figure 13). The complex is served by a rati spur from the Moscow-Riga ratil time. A description of the various	1
and a longitudinal roof monitor measur— The third slop-type building is 120 by 50 feet. The possible powerplant and substation in the eastern part of the Maintenance Area are separately secured. The main section of the possible powerplant is about three stories high, and has six roof vents. The east side of the plant is two stories high, and has a gable roof; the south side of the plant is low and about 20 feet wide. A tall vertical tank or chrimney is visible on the west side of the plant. If this building is a powerplant,	stages of construction observed at the complex between Au- gust 1961 and February 1964 is presented in NPIC/R-237/ 64. 1/ OPERATIONS AREA The Operations Area of the Bulyzhino complex is situated in a dense conferous forest and measures approximately 9,200 by 8,000 feet. The area is secured by wire fencing, and access to it its controlled by a gatehouse (BP) on the west	The Operations Support Pacility is immediately south and east of the IRP, near the intersection of the Irap road and the central service road. The facility contains an unidentified building and a separately secured drive-throughbuilding served by a loop road, The drive-throughbuilding is a center longitudinal high host probably bourses overhead handling equipment. A one-story how 30 feet wide is situated on each side of the center bay and may con-
I must be gas fired because no fuel supply was observed, the possible substation is south of the possible powerplant.	side of the central service road at the entrance. The area contains six lunkers, an operations support facility, a loop	tain shop space. The unidentified building is and is goad served. It has no drive-through capability. No steamlines are discernible in the Operations Area.

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RAIL FACILITY

The Rail Lacility Is 4,500 feet north of the Operations area and west of the central service road (Figure 11). It consists of a holding yard with five or six parallel sidings, a traveling bridge crane, a steamplant, two earth-mounded POL tanks, and three rall spurs. The holding yard has been constructed in a man-made depression. One rail spur and a portion of a loop road are situated between the supporting walls of the bridge crane, which is 2,300 feet west of the central service road. Although no fences are visible, this portion of the facility is probably secured. Since February 1964 two types of rail cars have been observed in the holding and the other, probably a treight car, Although it has been impossible to determine the exact number of each type of car, as many as 24 of the longer cars have been observed in the yard at one time. Approximately the same number of both types of cars have been observed at most of the complexes. The rail spur on the north side of the holding yard terminates in the vicinity of the POL tanks (each 45 feet in diameter). Earth scars on the west side of the central service road are probably buried steamlines extending from the steamplant to the housand administration facilities and to the Operations Area.

HOUSING AND ADMINISTRATION

thousing for military personnel is approximately 4,200 feet northeast of the Bail Facility and constate of multistury harraxis and single-story units (Figure 14). Ten barracks have been completed, and each is three storteshigh and 220 by 60 feet. These barrax is could accommedate an estimated total of 3,300 troops. Four two-story harracks, each measured period of the story units probably house parior officers, and ten single-story units probably house barrior officers. Lachunit and can accommedate two or three families. Other facilities include an H-shaped measuring 80 by 55 feet each. A probable parade ground and/or athletic field is being prepared at the aoutheast corner of the military basining facilities.

ry housing facilities.

Construction workers are housed in a separately fenced

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area south of the Rail Facility. The area contains six singlestory dormatory-type buildings, an administration building, two 1-shaped buildings one of which is a messhall), and several other buildings.

OTHER SUPPORT FACILITIES

The Construction Support Facility north of the Rall Facility is enclosed by a wall and consists of one rall siding, piles of aggregate, a concrete batch plant, two conveyors, an open storage yard, warehouses, and administration buildings (Figure 14). A waste basin southwest of the military busines and north of the Rall Facility is for seeing chaponal.

The Maintenance creats went of the central service road and adjacent to the construction workers housing facilities (Figure 14). A fenced motor pool immediately west of the Rall Facility and west of the central service road contains three support buildings and a vehicle garage. The garage is \$25 by 70 feet and is evenly divided into five gable-moted bays. The center of the motor pool is Lindscaped. Many unidentified vehicles have been parked between the garage and the Lindscaping since Tebruary 1964.

NYANDOMA SENSITIVE OPERATIONS COMPLEX

The Nyandoma Sénsitive Operations Complex is approximately 4 nm south of Nyandoma and east of the Vologia Arkhangelak rail time (Figure 15). A spur from that line serves the complex. The complex was observed for the first time in August 1960 when the fill Facility was under construction. The next usable photographic coverage of the complex was in March 1961. At that time two barracks had been built, and sites for three bunkers had been cleared approximately 3 nm cask of the Rail Facility. In April 1962 excavating for a gignler was noted for the first time, and two months later two exclyations were visible. By December 1962 a third barracks had been built, and two POL tanks had been constructed in the Rail Facility. Two bunkers were in the early singes of construction in April 1963.

April 1964 RLT photography, the first large-scale cov-

April 1964 KH-7 photography, the first large-scale coverage of the complex, revealed that construction was continuing on the first two bunkers, and a third was in the early, stages of construction. Four barracks had been completed, and a titth was under construction. The POL tanks had been earth covered, and a steamplant had been completed next to the POL tanks. By June Pols the first two binkers were nearing completion; the third was in a midstage of construction; and an excavation possibly for a fourth burker, was observed approximately 5,200 feet north of the existing binkers, the fifth barracks was nearly complete. A traveling bridge crane and the Operations Support Tacility were under construction. At that time military biossing facilities included nine barracks and thirteen duplex units. The bridge crane was completed between June and September. Althooptimus of the complex was obscured by clouds in September, 19th at was evident that one binker had been completed and earth covered and that the bridge crane had also been completed.

OPERATIONS AREA

The Operations Area is 22/mme ast-mortheast of the if-all Facility and is approximately 8,000 by 7,000 feet. Only a portion of the security forcing is while. Accose to the area is controlled by a gatebose (RP) on the south sake of the rea. A central service road extends from the area to the support and busing facilities. The area contains one complete earth-covered gamma bunker (flunker 1), one delta bunker (flunker 2) and one gamma bunker (flunker 3) both of which are under construction (Lable 5). An unimproved road service with bunkers.

Table 5. Beautyption of Bushers in the Operations Area, Negational Sensitive Operations Complex

Bunker No	Type	Distance from RP (ft)	Aranuth from RP	Distance from Ottor Buckers (ft)	Natu-
1	(2an.u.a	4,644	90*	3,100 from No. 2	Complete & eattl
ť	Delta	1,700		a, too from No. 1	Under construction
3	Ganne	2,200	500	3,700 from No 2	I nder

The Operations Support Facility in the southwestern part of the Operations Area is under construction. The facility contains as unidentified long building which is complete and a drive-through building. Only the exterior walls of this building have been cretted.

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RAIL FACILITY

The Bail Facility in the western portion of the complex contains a holding yard with five or six shiftings, at traveling bridge crane, two earth-mounded POL tanks, and a steamplant. The steamplant and POL tanks are rail served. The crane is about 1,800 feet north-northwest of the steamplant, and a seventh rail shifting las situated between the supporting walls of the crane. In April 1964 at least 20 long rail cars were observed in the holding yard, and in June 1964 about the same number of long cars were observed again. In April 1964 there, FAGOL attractf were parked on shardstand near the northwest end of the Rail Facility, and two months later five bright unidentified objects were observed in the same location. In March 1965, 25 to 27 long rail cars and four shorter cars were in the holding yard.

HOUSING AND ADMINISTRATION

Military housing facilities include barracks, duplex units, an H-shaped mosshall, and a U-shaped administration building. Five completed three-story barracks are approximately the same size as those observed at bulyphino. Six one-story barracks, probably for punor officers, are 1,700 teet west of the three-story barracks.

[Introduction of the complete of the comp

and three-story barracks are probably quarters for senior officers.

Construction workers are housed in six single-story durinteriors in a fenced area west-ourliwest of the military meaning fajithies. The area shot contains a 1-shaped measibility and several small undentified buildings. Construction workers are also housed in an area west-outliwest of the RP near the Operations screen. This area contains five single-pury dermitories, a 1-shaped measiball, and several most buildings.

OTHER SUPPORT FACILITIES

Additional support facilities include the Maintenance Area, the Construction Support Facility, and the motorpool. The Maintenance Area is 2,500 feet west-southwest of the RP on the south side of the central service road. An earth scar extends from the southeast corner of the area to a

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probable pumphonae 1,150 teet gast-southeast of the area. The Construction Support Facility cast of and parallel to the Rail Facility contains two rails apura, a concrete batch plant, several warehouses, a fabrication yard, and construction materials. The motor pool at the south end of the Rail Facility is secured by a solid fence or wall. It contains a weblick garage and a building measuring approximately 160 by 65 feet, in April 1944 five rows of vehicles, including 40 to 50 large van-type vehicles and many small vans and trucks, were parked in the motor pool.

RECHITSA SENSITIVE OPERATIONS COMPLEX

The Rechitaa Sensitive Operations Complex is 12 nm northwest of the city of Rechitaa and north of the Gomel-Kalinkovichi double-track rall line (Pigure 16). A spur from that line serves the complex. The road serving the complex interacets the Rechitaa-Slutak highway 2.5 nm south of the complex. The complex was first observed in June 1961, and at that time a spur from the Gomel-Kalinkovichi line had been extended from Pumkhi Station into the complex. By December -1961 the Rail Facility had been constructed. Excavations for four bunkers were visible in the summer of 1962, and in September a fifth excavation was observed. By the end of 1964 three bunkers had been completed and earth covered, one was nearly complete, and two were under construction. All support facilities had been completed. In March 1965 five bunkers were complete and earth covered, and the sixth was nearing completion.

OPERATIONS AREA

The Operations Area has been constructed on level terrain in a forest of conferous and decidious trees and is approximately 6,800 by 6,600 feet. Although the total number of fences enclosing the area cannot be determined, at least two fences are clearly visible. Access to the area is controlled by a gatchouse (RP) at the entrance. A U-shaped road serves the area. The area contains one gamma bunker (Blunker 1) two delta bunkers (Blunkers 2 and 5), one bunker (Blunker 6), possibly an epsition, and two zetabunkers (Blunkers 1 and 3), all of which have been constructed on flat terrain (Table 6).

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Lable 6.	Bearrigtoon of Bunkers in the Operations Area,	
k	echias Sensitive Operations Complet	

Bunker No	Type	Distance from RP (ft)	Distance from Other Bunkers (71)	Matu-
1	Zelta	1,500	4,800 from No 6	Complete & carri
2	Delta	1,750	9,380 from No. 1	Complete & earth
3	Zeta	1,900	3,500 from No 2	Complete & earth
4	tianma	7,500	4,700 from No 3	Camplete & eart)
5	Delta	6,300	2,800 from No. 4	Under construction
6	Epsilon*	6,300	2,700 from No. 5	Complete & earth

Possible

The Operations Support Facility is north of the IIP and noted in the function of the central service road and the U-shaped road. The facility contains a high-bay drive-through building and a longunidentified building. The drive-through building is 1,800 feet north of and on an azimuth of 10 degrees from the IIP; the unidentified building is 1,200 feet north of

RAIL, FACILITY

The Rail Facility in the southeastern section of the complex contains a holding yard, a traveling bridge trane, a steamplant, and POL tanks. Although the exact number of sidings in the holding yard is unknown, rolling slock observed there indicated that there are at least five skilings. A number of rail cars have been seen in the yard since Civilor 1984. The easternmost siding is situated between the supporting walls of the bridge crane. The steamplant and adjacent PoL. lanks are in the northwest corner of the Rail Facility.

HOUSING AND ADMINISTRATION FACILITIES

Military housing facilities are on the east side of the central service road and 1.2 mmonth of the Gomel-Lamnets highway. These facilities include encompleted three-survey barracks capable of housing an extimated total of 3,500 troops. Junior officers are probably housed in tive two-story barracks, each of which Prior to Ck toker

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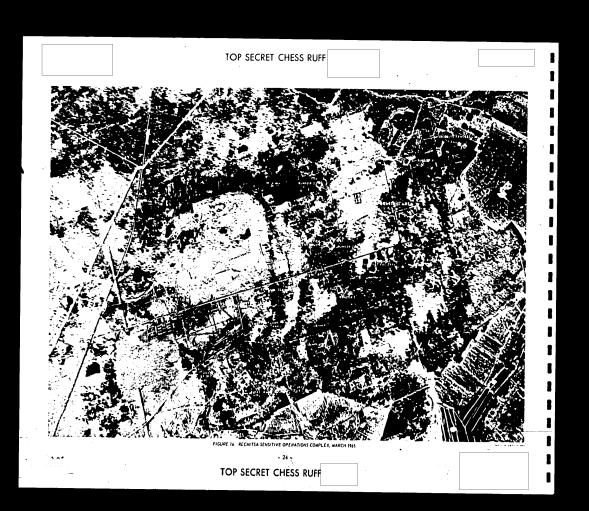
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1964 there were seven such barracks, but two were razed between October 1964 and March 1965. I wenty-two duples units north of the barracks are probably quarters for sentor officers. Other facilities include several administration therefore, an II-shaped fixeshall, and several other buildings. Construction workers are housed in tive dormitories.

OTHER SUPPORT FACILITIES

directly west of the RP.

The Maintenance Area is immediately south of the RP on the west sidy of the central service road. Facilities in the area are similar to those observed in the maintenance areas at most of the other complexes. The Construction Support [Acadity parallels the work side of the Rail Facility and contains piles of aggregate, a concrete batch plant, a fabrication yard, and warehouses. The moor pool to on the east side of the central service road and 2,000 feet west of the Rail Facility. In March 1905 many unidentified whiches were observed on the parking group.

ZHUKOVKA SENSITIVE OPERATIONS COMPLEX

The Zhukovka Sensitive Operations Complex is 7 nm east of the city of Zhukovka and 22nm northwest of Bryansk (Figure 17). The complex is approximately 3 nm north of the Bryansk-Smolensk rail line. A spur from that line extends from the Rzhanitsa Station into the complex. The complex was first observed in April 1962 when it was under construction. At that time the Rail Facility and some housing facilities had been constructed, and a rail spur had been extended beyond the Rail Facility to the Operations Area. One excavation was visible in that area. By November 1962 additional housing units had been built, and a second excavation was observed in the Operations Area. By September 1963 the housing facilities were nearing completion, and construction activity was concentrated in the Operations Area. A bunker was under construction in the first excaand two additional sites were being excavated. Grading for a loop road hadbeen started, A high-bay drivethrough building and the Maintenance Area had been completed. In June 1964 the first bunker was complete and earth covered; the second bunker was nearing completion; bunkers

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were under construction in the third and foorthexcavations; and a fifth excavation was observed. Asixth excavation was observed in March 1965.

OPERATIONS AREA

The Operations Area in the mortheast portion of the complex owers I square matical mile. Life the licelitis a Operation has at Zhukowki is on flat terrain. It is enclosed by a feast two fences, and access to it controlled by a gatehouse (RP) on the west side of the area. A loop road with wide turns was completed in March 1965 and now serves the bunkers. A traveling bridge crane has been built assirted a rail sport which has been extended into the Operations Area. Zhukowki is the only sensitive operations compiles having a rail-served Oberations Area.

tions complex having a rall-nerved Operations Area.

One gamma bunker (Hunker I), one delta bunker (Hunker 2), and one zeta bunker (Hunker 3) have been completed and cartic covered (Table 7). One zeta and one delta bunker (Hunkers 4 and 5) are under construction. The expandation for a sixth bunker is 2,300 feet.

It is in the northwest corner of the Operations area and is served by the loop road. What type of bunker will be constructed in the excavation is unknown.

Table 7. Description of Hunkers in the Operations Area, Zhukurka Sensitive Operations Complex

Bunker No	T) per	Distance from RP (ft)	Distance Other Bu (ft)	
1	Gamma	2,300	3, 150 from 5	Complete & earth
2	Delta	5,000	2,500 from 3	Complete & earth to 1 covered
	Zeta	6,100	, - 2,500 from 3	Complete & earth to 2 covered
٠	Zeta	6,400	3,730 Inm 1	Under No.3 construction
5	Delta	4,500	1,500 - from 1	Under Na 4 construction

The Operations Support Facility near the entrance contains a high-bay drive-through building and a long unidentified building. The drive-through building is immediately anoutheast of the infersection of the loop road and the central service road; the unidentified building is on the north side of the central service road.

RAIL FACILITY

The Rail Facility is in the southeastern portion of the complex and contains a holding yard, a stear plant, and two earth-covered POL tanks. The holding yard at the northeast end of the facility probably contains six sidings, the precise number cannot be determined. Several long rail cars were first observed in the yard in June 1961. The steamplant and POL tanks are in the northwest corner of the holding yard.

HOUSING AND ADMINISTRATION FACILITIES

OTHER SUPPORT FACILITIES

The Maintenance Area opposite the construction workerhousing and on the north side of the central service road contains facilities similar to those observed at the other complexes. The Construction Support Facility west of the Rail Facility is rail served and contains a concrete batch plant, warehouses, and a fabrication yard. The major pool is at the north end of the Rail Facility and 0.5 nm east of the military housing facilities.

BELEV SENSITIVE OPERATIONS COMPLEX

The Belev Sensitive Operations Complex 26 nm southsoutheast of the town of Belev and 13 nm south-southwest

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of Arsenyevo Nation is in an early stage of construction (Figure 1b). When first observed in June 1963, the complex contained a construction support facility and a limited number of housing units; a rull spur fromthe Kozelsk-Ger-Dachevo single-track line had been constructed from apoint just west of Arsenyevo Nation to the complex. The only roads serving the complex were unimproved roads. In February 1964 the Rail Facility was nearing completion; a steaminian and one POL tent had been erected, and addition

raads serving the complex were unimproved raads. In February 1963 the Rail Facility was nearing completion; a steamplant and one POL cank had been ejected, and additional housing units were observed. By early June 1984 three additional POL tanks had been constructed near the steamplant; rolling stock was visible in the Rail Facility; and ground was being cleared for rands which will serve the Operations Area. In late June 1964 all four POL tanks had been earth cowered, and a portion of the Operations Area had been enclosed by security fencing. A new road was being constructed, and when completed, will terminate 11.4 nm southeast of the complex on the Orel-Tula double-track rail line. The road, which is wide and straight, is capable of carrying a heavy volume of high-speed traffic.

OPERATIONS AREA

The Operations Area is situated in the southeastern portion of the complex and measures approximately 4.5 by 5.5 min. Only a portion of the security fencing is visible. At least two parallel fences are visible on the south side of the area, and a row of positioles at the southeastern end of the area indicates the alignment of the fence. Access to the Operations Area is controlled by a gatehouse (RI') 2,500 feet southeast of the Construction Support Facility and by a building which is also probably a gatehouse focated on a country road 10,900 feet southwest of the first

gatehouse, near the village of Suchki.

No bunkers have been constructed in the Belev Operations area. Only one excavation approximately 7,300
feet south of the RP near the southern perimeter fence
has been identified as the probable site for a bunker. The
excavation which is served by a new roads long and narrow
and could accommodate an eta or theta bunker. Road construction is under way and wide rights-of-way-have-book
cleared through the forest.

The Operations Area does not contain an operations support facility as yet. However, such a facility may be under construction in the western portion of the complex, TOP SECRET CHESS RUFF

south of the steamplant where a possible drive-throughbuilding is under construction. If so, the proximity of the Operations Support Facility to the Rail Facility will resemble the site plan observed at the Mikhaylovka comnice.

RAIL FACILITY

The Ball Facility 8,500 feet west-northwest of the BP and north of the steamplant is under construction. It consists of a holding yard with five to seven skilings. A separate siding serves four POL tanks just northof the steamplant. Although rolling stock has been observed at the Ball Facility on several occasions, the size and type have not been determined. Because the complex is still in an early stage of construction, long rail cars observed at some of the other complexes are probably not present at Belev. A railroad turning wye, the only one observed at any of the complexes, is northwest of the Ball Facility. No bridge crane has been constructed. Roads in the vicinity of the facility are under construction, and road patterns are not clearly defined.

HOUSING AND ADMINISTRATION FACILITIES

Facilities for housing military personnel are 2.5 nm west of the RP in the western extremity of the complex. They include nine barracks and thirteen single-story units which are probably quarters for senior officers. Ample pace is available for the construction of additional units. Four mulitatory barracks, each of which is approximately 220 by 50 feet, could accommodate an estimated total of about 1,300 troops. Five barracks, probably for junior officers, are probably two stories high, and each is 135 by 45 feet. Each one-story unit could house two or families. A small-arms fifting range is 1.3 nm north-northeast of the military housing facilities. The irregularly shaped probable infittmary or assembly and recreation building is southeast of the military housing facilities. No_administration buildings or meashalls have been constructed.

Construction workers are housed west of the RP and immediately south of the Construction Support Facility. These facilities consist of six, or possibly nine, single-

story dormitories and several other structures.

OTHER SUPPORT FACILITIES

The Construction Support Facility just northwest of the IR consists of piles of materials, a concrete batch plant, warehouses, shops, and a fabrication yard. A probable maintenance area is under construction immediately west of the construction workers housing facilities. The fieley complex contains no motor pool. If such a tacility is constructed, it will probably be located immediately south the Operations Support Facility.

BORISOGLEBSK SENSITIVE OPERATIONS COMPLEX

The Bortsoglebsk Sensitive Operations Complex is approximately 6 nm west of the town of Borfsoglebsk and immediately southwest of the Lipetsk-Volgograd rail line dig. ure 19). A spur from that line serves the complex. The complex was first observed in April 1962 when a construcsupport facility and some housing facilities were under construction. By November 1962 three barracks and nine housing units for military personnel had been completed, the central service road has been extended from the military housing facilities to the Operations Area; and housing for construction workers was being built southwest of the Construction Support Facility. The next usable photography of the complex was that of December 1963. At that time two additional barracks were under construction. In the Operations Area two bunkers were underconstruction, and the ex-terior walls of a high-bay drive-through building had been erected. Work on the Rail Facility was under way, and a steamplant and two adjacent POL tanks were observed there motor pool had been completed, and the Maintenance Area was under construction just outside the entrance to the Operations Area. In September 1964 construction was contiing on the two bunkers, and an excavation for a third bunker served; the high-bay drive-through building was complete; in the Rail Facility 15 long rail cars were observed on as under construction. An infirmary or assembly and recreation hall and an II-shaped messhall had been built,

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OPERATIONS AREA

The Operations Area is about 3.5 nm south-southwest of the military housing facilities. Because no security fencing is discernible, the size of the area cannot be determined from the photography. A gatehouse (RP) is just outside the en-trance and on the side of the central service road. The area is served by the central service road and by roads previously used in logging activity. All turns have wide radiuses, and all probably have concrete surfaces.

The Operations Area contains one eta bunker (Bunker 2), one theta bunker (Bunker 1), one bunker (Bunker 3) which is probably an eta, an excavation for a fourth bunker, and an operations support facility (Table 8). Bunkers I and 2 are nearing completion but have not been backfilled or earth covered us yet. Construction equipment was visible in the immediate vicinity of both bunkers in January 1965. Some of the exterior walls for Bunker 3 have been erected. No construction activity has been noted in the excavation for the The excavation is on an azimuth of 86 degrees and 11,400 feet from the RP.

Table 8. Description of Bunkers in the Operations Area, Burrauglibak Sensitive Operations Complex

Bunker No	Type	Distance from RP (ft)	Azimuth from RP	Distance from Other Bunkers (ft)	Malue
1	Theta	3,500		***	L'ader ron-truction
2	l.ta	¥,600		7,600 from No. 1	I nder
3	Lie	6,300		9,300 (may No. 1	Under

The Operations Support Facility south of the RP constates of adards - bay drive-through building and a small uniden-tified building. The buildings are connected by an unidentified ground scar which terminates at a probable processing buildine northwest of the Maintenance Area.

RAIL FACILITY

The Rail Facility in the northern part of the complex contains a holding yard with aix parallel sidings, five buildings, and a loop road. No traveling bridge crane has been TOP SECRET CHESS RUFF

observed, but holes for the footings of the vertical supports have been dag. In September 1964, 15 rail cars
were observed on two of the sidings and probably
have not been moved since that time. Fifteen rail cars were observed in the same location in January 1965. The five buildings, each of which are situated between the holding yard and the central service road. All have are situated between drive-through or walk-through capabilities and are 95 feet A steamplant, earth-mounded POL tanks, and unidentified buildings are on the north and northwest sides of the Rail Facility.

HOUSING AND ADMINISTRATION **FACILITIES**

Housing for military personnel is approximately 7,000 feet west of the Rail Facility and is enclosed by a single fence. A gatehouse was observed at the entrance. Six threestory barracks, each of which is 230 by 45 feet, have been completed, and three additional large barracks are under construction. When completed, the nine barracks could house an extimated total of 2,800 men. Ten duples units in the n the beastern part of the area are probable officers quarters. Other facilities include an H-shaped messhall and several administration buildings. A three-story irregularly shaped building measuring 215 by 50 feet is located between two rows of barracks and is probably an infirmary or an assembly and

recreation building.

Construction workers are housed at two locations: approximately 1,200 feet northwest of the RP and immediately onstruction Support Facility. The facilities near the RP include six one-story dormitory-type buildings, a Tshaped messhall, a large U-shaped building, and a small unidentified building. Those adjacent to the Construction Sup-port. Facility consist of nine single-story dormitory-type buildings.

OTHER SUPPORT FACILITIES

The Construction Support Facility is in the northeastern section of the complex, south of and parallel to the Lipetsk-Volgograd rail line. It contains warehouses, a concrete batch int, a fabrication yard, construction equipment, and three rail sidings.

The motor pool occupies a secured rectangular area im-- 30 -

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mediately southwest of the Bail Lacility, It contains a garage measuring 255 by 65 feet and an associated building meas-In January 1965 many unidentified vehicles were observed in the motor pool. Access to the area is controlled by a gatebouse at the entrance. An unidentified secured facility adjacent to the motor pool contains several unidentified vehicles and equipment, a large one-story U-shaped building, and several unidentified buildings. ı

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The Maintenance Area immediately west of the RP probably provides service and technical support for the Operations Area (Figures 19 and 20). It is secured by a single fence, and a catelouse is situated at the entrance. The area contains at least 15 buildings (one of which is under construc-tion), a possible auxiliary powerplant, and five earthmounded tanks (Lable 9). Most of the buildings are shop-type structures, and their functions are not known. A separately

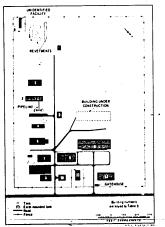


FIGURE 70. LAYOUT OF THE MAINTENANCE AREA, BOR'SOCLEBSX SENSITIVE OPERATIONS COMPLEX.

secured unidentified facility is in the southern corner of the area. A pipeline sear west of the Maintenance area terminates at a waste basin.

Lable 2. Principal Buildings in the Maintenance Aria, Bursoughbak Senastive Operations Complex (Building numbers appear in Eigher 20)

Bldg	Donen-ton-(ft)	Description
1	7 –	Shop-type bldg; 1 -tory
2		Possible diesel auxiliary powerplant
		5 roof vents; connected by pipelize
		to 2 carthenounded tanks
3		Shop-type bldg; 1 story
4		Shop-type bldg: 1 story
5		Shop-type bldg: 1 story; vestibule
6		Laboratory-type bldg: 3-4 vtorios; 8 toof vents
7		Shop-type bldg: 1 story
•		Shop-type bldg; 1 story; low roof monitornt E end
D .		Shop-type bldg: 1 story
10		Shop-type hldg; I story; parking apton on E side; may have drives in capability
11		Shortype bldg: 1 story; fenced
12		Short you bldg: 2 stories

The probable processing building west of the Maintenance Area was under construction in January 1905 when the exterior walls were approximately at ground level. The building and consists of several compartments. A trench, probably for an effluent pipeline, extends from the building to a discharge point in a gully.

CHAADAYEVKA SENSITIVE OPERATIONS COMPLEX

The Chaadayevia Sensitive Operations Complex is 5 nm esostieast of the town of Chaadayevia (Figure 21). The Syzan-Penza double-track ralline blacestate complex, and a spur from that line serves the installation. The complex was first observed on July 190 KEYHOL Ephotography when the Hall Facility was under construction. At some time after April 1962 construction began on three bunkers but was abandoned by July 1962. Because construction stopped, it was impossible to determine the types of bunkers being built or the

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generation to which they belonged. Between July 1962 and September 1963 an excavation for a fourth bunker was observed. The long narrow confligaration of the excavation indicated that a probable third-generationbunker was under construction. Since their a bunkers were the first to be built at Bortisiglebok and Mikhaylovika, it was logical to assume that the fourth bunker at Chaadayevka would be a their bunker. Chaadayevka is the only complex where such ca hangeover in bunker design and construction has been observed. In June 1964 an overpass for the Syzran-Penza rail line was under construction north of Ignatyevo Station, and It was probably completed by October of that year. Construction on two POL tanks began in June 1964, and by November the tanks were probably complete but not earth cowered.

OPERATIONS AREA

The Operations area is in the eastern half of the complex. Security fencing and a gatehouse were not visible. The area contains three abandoned byniters (Bunkers 1, 2, and 3) and a fourth bunker (Bunker 4), probably atheta, under conaffaction (Luble 10). An existing road has been extended northward and across the Syzran-Penza rail line via an overpass to Bunker 4. Earth searring 2,700 feet north-northweat and 2,800 feet northwest of that bunker may indicate that the two sites are being prepared for the construction of a fifth and sixth bunker. A fork in the road west of Bunkers 1, 2, and 3 has been arbitrarily lectical as the reference point (RP) from which all distances and azimuths withinthe complex have been calculated. The area does not contain an operations support facility.

Table 10. Description of Hunkers in the Operations Area, Chandapeeks Sensitive Operations Complex

Bunker No	Type	Distance: from RP (ft)	Azimuth fr.m RP	Natue
1		7,200		Not completed; abandoned
2	**	10,200		Not completed; abandoned
3		9,100		Not completed; abandoned
4	Theta	26,500		Under construction
	(probabl	1		

RAIL FACILITY

The Rail Facility 1 nm northwest of the RP contains a - 31 -

holding yard and two POL tanks. The number of sidings in the yard is not known. The POL tanks are altuated in an excuration, and approximately half of each tank is below ground level. The capacity of the tanks is unknown. No steamplant has been built adjacent to the tanks, and no traveling bridge crane or rolline stock have been observed.

HOUSING AND ADMINISTRATION FACILITIES

Housing facilities for military personnel southwest of the Rail Facility are probably under construction. At present these facilities consist of five barracks which are probably respective.

two-story structures.

They could accommodate an estimated total of 1,530 troops. No administration buildings were observed. Three unidentified buildings are in the immediate vicinity of the barracks. The first is three stories high and approximately the second is also three stories high 4 and the third building is approximately

and the third building is approximately and has a flat roof with a low longitudinal monitor. Housing for construction workers is east of the Rail Facility and consists of seven long, narrow, single-story, dormitory-type buildings and a T-shaped meashall.

OTHER SUPPORT FACILITIES

The Construction Support Facility southeast of the Rail Facility is rail served and contains a concrete batch plant, piles of aggregate, warehouses, and other support buildings. No motor pool or steamplant have been observed at the Chaadayevika complex.

MIKHAYLOVKA SENSITIVE OPERATIONS COMPLEX

The Mikhaylovka Sensitive Operations Complex is 5.2 nm west of the town of Mikhaylovka and IR nm north of the city of Kirovograd (Figure 22). The complex is served by a rall sput from the Zamaneka-Mironovka double-track rall line. The installation was first observed on KEYIGIZ photography of December 1961 when the Construction Support Facility was complete and work on the Rall Facility bad be-

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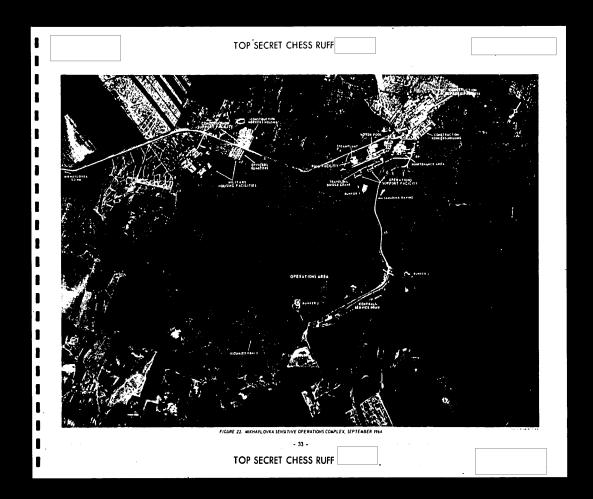
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No barracks had been constructed. In the summer of 1963 excavations for three bunkers were visible, and two barracks had been erected. Construction activity in the ex-cavations was noted the following spring. The Maintenance Area was under construction in August 1963 and was completed prior to June 1964. By that time three bunkers were under construction; the Operations Support Facility had been completed; and the Rail Facility was nearing completion. At the same time military housing and administration facilities were being expanded with the addition of a third barracks and an infirmary or assembly and recreation building. An H-shaped messhall was also under construction. Between June and October 1964 the three bunkers were nearing com pletion, and a traveling bridge crane had been erected in the

OPERATIONS AREA

Rail Facility.

The Operations Area is in the northwest portion of the omplex and covers an area measuring 11,500 by 7,900 feet. With the exception of the security fencing which crosses open ground, details of security fencing are concealed by the dense Access to the area is controlled by two gatehouses, one (RP) at the south entrance to the area and the other at the north entrance. The area is served by a central service road constructed on the floor of the Samurina Ravine, and the bunkers are served by branches of this road. One eta bunker (Bunker 2) and two theta bunkers (Bunkers 1 and 3) are under construction in branches of the Samurina Ravine (Lable 11). According to the best available topographic map. this ravine is 50 meters deep. The bunkers are the follow-ing number of meters below the level of the highest ground bordering the feeder ravines: Bunker I, about 20 meters; Bunker 2, about 45 meters; and Bunker 3, about 30 meters.

Lable 11. Description of Bunkers in the Operations Area.

Bucker No	Туре	Distance from RP (ft)	Azimuth from RP	Distance from Other Bunkers (ft)	Natus
1	Theta	2,700		7.660 from No 3	Under .
2	1.14	6,3(6)		5,040	Construction Under
3	Theta	9,500		5,760	Construction Under

The Operations Support Facility,

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and 2,400 feet northeast of the RP, contains a highbuy drive-through building and an associated unidentified building. The high-bay building is 840 (seet from Bunker 1; the unidentified building is approximately 450 feet westsouthwest of the drive-through building. A loop road serves the drive-through building and intersects the road which serves Bunker 1. Mikhaylovka is the only complex where the Operations Support Facility is so close to the Rail Facility,

RAIL FACILITY

The Rail Facility northeast of the RP consists of a holding yard with five or six parallel sidings, a traveling bridge crane, and a steamplant. Since September 1964 rolling stock in the holding yard has included 12 rail cars

The steamplant is in the southeastern part of the facility. No POL tanks or coal piles have been identified, an indication that the steamplant is probably gas fired. A short rail siding, south of and parallel to the holding yard, is adjacent to the motor pool. A platform between the siding and tor pool may facilitate the loading or offloading of small items or possibly vehicles.

HOUSING AND ADMINISTRATION **FACILITIES**

the complex. Facilities for enlisted personnel include three completed barracks and three under construction. All arc three stories high. Two of the completed barracks
and both have three-story offset extensions

at one end. The third completed barracks is Of the three barracks under construction, two will also have extensions at one end, and the third will be identical to the existing rectangular barracks. These facilities will be capable of housing an estimated total of approximately 3,000 troops. An ii-shaped messhall, an irregularly shaped probable infirmary or assembly and recreation building, a soccer field, and a small-arms firing range are associated with Officers quarters southwest of the barracks consist of 21 duplex units and one probable single-family unit. All are complete and are probably occupied,

OTHER SUPPORT FACILITIES

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Facility contains several shop-type buildings, a possible uxiliary powerplant, and earth-mounded tanks. All roads in the area are concrete.

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Unlike the other complexes, Mikhaylovka has two Construction Support Facilities. The first is directly south of the Operations area and contains a concrete batch plant, warehouses, and piles of aggregate. Housing for the construction workers is adjacent to the facility and consists of ten dormitory-type buildings, two probable administration buildings, and a T-shaped messhall. The second Construction Support Facility is southwest of the military hou ing and is engaged in the construction of barracks. This facility is served by a short rail siding and contains several warehouses and a concrete batch plant. Housing for the construction workers is immediately south of the fa-cility and includes nine single-story dormitory-type buildings and several other structures.

The motor pool immediately south of the Rail Facility is secured. Access to it is controlled by a gatebouse.

CONCLUSIONS

The complexes probably have a tactical support mission which may involve a variety of weaponry

The large number of troops the complexes could house

far exceeds that needed for caretaker purposes.

The presence of a fairly constant number of long rail cars at a given complex over a period of time may indicate that these cars are on a standby basis and could facilitate the rapid movement of troops and materiel.

In order to conceal activity as much as possible, the local terrain at each complex has been disturbed as little as possible. Little vegetation has been removed, and only the areas needed for construction activity have been cleared and graded. Security fencing around the operations areas has been erected in wooded areas rather than in fire-

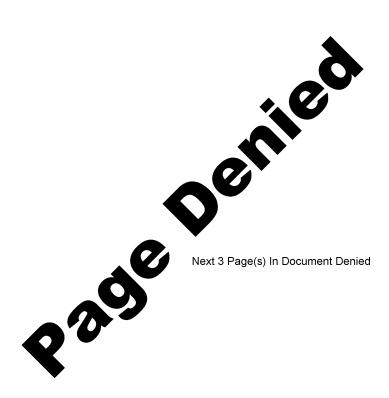
breaks, thus effecting a greater degree of concealment. To reduce the vulnerability of the bunkers, they have been constructed on terrain which provides them with max-imum protection wherever possible, and they have been protected by a heavy earth cover.

An analysis of the photography has not provided an explanation for the presence of the aircraft at three of the complexes.

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